



AFCTN Test Report AFCTB-ID 94-045



Technical Engineering Drawing Transfer

Using:

Lockheed Missile & Space Company's Data

Supporting:

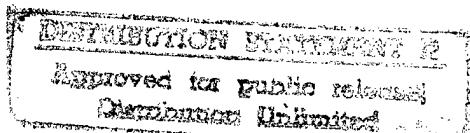
The Joint Advance Rocket System

Contract #N00019-9-2-C-185

MIL-D-28000A (IGES)

Quick Short Test Report

02 September 1993



19960822 175



Prepared for
Electronic Systems Center
Det 2 HQ ESC/AV-2
4027 Colonel Glenn Hwy, Suite 300
Dayton, Ohio 45431-1672

DTIC QUALITY INSPECTED 3

DISCLAIMER NOTICE



**THIS DOCUMENT IS BEST
QUALITY AVAILABLE. THE
COPY FURNISHED TO DTIC
CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO
NOT REPRODUCE LEGIBLY.**

AFCTN Test Report
94-045

AFCTB - ID
93-085

Technical Engineering Drawing Transfer
Using:
Lockheed Missile & Space Company's Data
Supporting:
The Joint Advance Rocket System
Contract #N00019-9-2-C-185

MIL-D-28000A (IGES)

Quick Short Test Report

02 September 1993

Prepared By
Air Force CALS Test Bed
Wright-Patterson AFB, OH 45433

AFCTB Contact
Gary Lammers
(513) 427-2295

AFCTN Contact
Mel Lammers
(513) 427-2295

DTIC QUALITY INSPECTED 3

DISCLAIMER

This document was prepared as an account of the work sponsored by the Air Force. Neither the United States Government, the Air Force, nor any of their employees makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, nor represents that its use would not infringe on privately owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the Air Force. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the Air Force, and shall not be used for advertising or product endorsement purposes.

Available to the public from the
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161

This report and those involved in its preparation do not endorse any product, process, or company stated herein. Use of these means by anyone does not imply certification by the Air Force CALS Test Network (AFCTN).

Contents

1.	Introduction.....	1
1.1.	Background.....	1
1.2.	Purpose.....	2
2.	Test Parameters.....	3
3.	1840A Analysis.....	5
3.1.	External Packaging.....	5
3.2.	Transmission Envelope.....	5
3.2.1.	Tape Formats.....	5
3.2.2.	Declaration and Header Fields.....	5
4.	IGES Analysis.....	6
5.	SGML Analysis.....	7
6.	Raster Analysis.....	7
7.	CGM Analysis.....	7
8.	Conclusions and Recommendations.....	8
9.	Appendix A - Tapetool Report Logs.....	9
9.1.	Tape Catalog.....	9
9.2.	Tape Evaluation Log.....	10
9.3.	Tape File Set Validation Log.....	12
10.	Appendix B - Detailed IGES Analysis.....	15
10.1.	File D001Q001.....	15
10.1.1.	Parser/Verifier Log.....	15
10.1.2.	Parser Log - AutoCAD R12.....	21
10.1.3.	Output AutoCAD R12.....	25

10.1.4. Output Cadkey v5.02.....	26
10.1.5. Output IGESView.....	27
10.1.6. Output IGESWorks.....	28
10.1.7. Output iges2draw/IslandDraw.....	29
10.1.8. Output Preview.....	30
10.2. File D002Q001.....	31
10.2.1. Parser/Verifier Log.....	31
10.2.2. Parser Log - AutoCAD R12.....	36
10.2.3. Output AutoCAD R12.....	41
10.2.4. Output Cadkey v5.02.....	42
10.2.5. Output IGESView.....	43
10.2.6. Output IGESWorks.....	44
10.2.7. Output iges2draw/IslandDraw.....	45
10.2.8. Output Preview.....	46

1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Lockheed Missile & Space Company's interpretation and use of the CALS standards in transferring technical engineering data. Lockheed used its Sun Sparc server 670 MP with Cadkey's v5.2 software to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan: AFCTB 93-085

Date of Evaluation: 02 September 1993

Evaluator:
George Elwood
Air Force CALS Test Bed
Det 2 HQ ESC/AV-2P
4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator:
Tom Benjamin
Lockheed Missile & Space Company
T4-02, 312, 3
6800 Burleson Road
P.O. Box 17100
Austin TX 78760-7100
(512) 386-2887

Data Description:
Technical Manual Test
2 Document Declaration files
2 Initial Graphics Exchange Specification
(IGES) files

Data Source System:
1840
HARDWARE
Unknown
SOFTWARE
AFCTN Tapetool v1.2.10 UNIX

IGES
HARDWARE
SUN Sparc Server 670 MP
SOFTWARE
Cadkey/UX v5.2

Evaluation Tools Used:

MIL-STD-1840A (TAPE)
SUN 3/280

AFCTN Tapetool v1.2.10 UNIX
XSoft CAPS/CALS v40.4

MIL-D-28000 (IGES)

Sun SparcStation 2

ArborText iges2draw
Carberry CADLeaf Plus v3.1
IGES Data Analysis (IDA) Parser/Verifier v92
IDA IGESView v3.05
IDA IGESXpert v1.0
Intergraph I/EMS 02.00.01.11
Intergraph I/CIGES 02.00.01.03
International TechneGroup Incorporated
(ITI) IGES/Works v1.3
Rosetta Technologies Prepare
Rosetta Technologies Preview v3.2

PC 486/50

AUTODESK AutoCAD 386 R12
Cadkey Cadkey v5.02
IDA IGESView Windows
Rosetta Technologies Prepare
Rosetta Technologies Preview

Standards
Tested:

MIL-STD-1840A
MIL-D-28000A

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape was enclosed in a barrier bag as required by MIL-STD-1840A, para. 5.3.1.2. Tape reel did not have a label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Some 9-track tape units require this BPI to be set manually. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTN Tapetool v1.2.10 utility. No errors were encountered while evaluating the contents of the tape labels.

The tape was read using the XSoft CAPS read1840A utility without any reported errors.

The physical structure of the tape meets the CALS MIL-STD-1840A requirements.

3.2.2 Declaration and Header Fields

No errors were found in the Document Declaration files and data file headers. This portion of the tape meets the MIL-STD-1840A requirements.

4. IGES Analysis

The tape contained two IGES files. These files were evaluated using IDA's parser/verifier set for CALS Class II. Both files were reported in error due to the use of IGES version 5.1. The use of this version is not permitted in the CALS MIL-D-28000A specification, except for Class V files. Also reported as an error was a missing drawing entity.

The Start section statement required by the MIL-D-28000A, para. 3.2.2.4.1 was not found.

The AFCTB has several tools for viewing IGES files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings.

The files were converted using ArborText's *iges2draw* utility with no reported errors. The resulting files were read into Island Graphics' *IslandDraw*, displayed and printed without a reported error.

The files were read using AUTODESK's AutoCAD R12 with translator version 5.1. Some errors and warnings were generated during the conversion processes relating to font selections. The files were displayed and printed without a reported error. However, it was noted that the diameter symbol was displayed incorrectly on the screen and hard copy. It was displayed as a "n" instead of "ø".

The files were converted using Cadkey's *ig2c* utility. The resulting files were read into Cadkey's *Cadkey*, displayed and printed.

The files were read into Carberry's *CADLeaf* software without a reported error. The images displayed without a problem.

The files were read using IDA's *IGESView* and *IGESView for Windows*. No problems were noted during this procedure. The images were printed.

The IGES files were converted using Intergraph's *I/CIGES* utility without a reported error. The resulting files were read into *I/EMS* and displayed.

The files were read using ITI's *IGESWorks* without a reported error. The files were displayed and printed.

The IGES files were converted using Rosetta Technologies' *Prepare* without a reported error. However, it was noted that the diameter symbol was displayed incorrectly on the screen and hard copy. It was displayed as a "n" instead of " \emptyset ". The resulting files were read into Rosetta Technologies' *Preview*, displayed and printed.

Because the required Start Section statement was missing, the IGES files do not meet the CALS MIL-D-28000A Class II specification.

5. SGML Analysis

No Standard Generalized Markup Language (SGML) files were included on the tape.

6. Raster Analysis

No Raster files were included on the tape.

7. CGM Analysis

No Computer Graphics Metafile (CGM) files were included on the tape.

8. Conclusions and Recommendations

The MIL-STD-1840A tape from Lockheed Missiles & Space Company was correct. The tape could be read properly using the AFCTN Tapetools with no reported errors. The physical structure of the tape meets the CALS MIL-STD-1840A requirements.

The two IGES files do not meet the CALS MIL-D-28000A specification, because of the missing Start Section statement. The files were successfully imported into several software applications, displayed, and printed without a problem.

Because of the errors in the IGES files, the tape does not meet the CALS MIL-STD-1840A requirements.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information
ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
for Information Interchange
ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Sep 2 09:40:52 1993

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set017

Page: 1

File Name Extracted	File Type	Record Format/ Selected/ Length Length/Total
D001 Extracted	Document Declaration	D/00260 02048/000001
D002 Extracted	Document Declaration	D/00260 02048/000001
D001Q001 Extracted	IGES	F/00080 02000/000118
D002Q001 Extracted	IGES	F/00080 02000/000103

Catalog Process terminated normally.

9.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Sep 2 09:40:40 1993

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1<ALS01

4

Label Identifier: VOL1
Volume Identifier: CALS01
Volume Accessibility:
Owner Identifier:
Label Standard Version: 4

HDR1D001 CALS0100010001000000 93236 00000 000000

Label Identifier: HDR1
File Identifier: D001
File Set Identifier: CALS01
File Section Number: 0001
File Sequence Number: 0001
Generation Number: 0000
Generation Version Number: 00
Creation Date: 93236
Expiration Date: 00000
File Accessibility:
Block Count: 000000
Implementation Identifier:

HDR2D0204800260 00

Label Identifier: HDR2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

AFCTN Test Report
94-045

AFCTB Test Report
93-085

***** Tape Mark *****

<<<< PART OF LOG FILE REMOVED HERE >>>>

***** Tape Mark *****

End of Volume CALS01

End Of Tape File Set

Deallocating /dev/rmt0...

Tape Import Process terminated normally.

9.3 Tape File Set Validation Log

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Thu Sept 2 09:40:52 1993

MIL-STD-1840A File Set Evaluation Log

File Set: Set017

Found file: D001

Extracting Document Declaration Header Records...

Evaluating Document Declaration Header Records...

srcsys: LMSC Austin Division, 6800 Burleson Rd., P O Box 17100, Austin TX
78760-7100

srcdocid: 3320AS1223

srcrelid: NONE

chglvl: ORIGINAL

dteisu: 19930824

dstsys: Naval Air Warfare Center - Weapons Division NAWC-35B4 China Lake Ca
93555-6001

dstdocid: 3320AS1223

dstrelid: NONE

dtetrn: 19930824

dlvacc: NONE

filcnt: Q1

ttlcls: UNCLASSIFIED

doccls: UNCLASSIFIED

doctyp: Product Data

docttl: Test IGES drawing

Found file: D001Q001

Extracting IGES Header Records...

Evaluating IGES Header Records...

srcdocid: 3320AS1223

dstdocid: 3320AS1223

txtfilid: NONE

figid: NONE

srcgph: NONE

doccls: UNCLASSIFIED

notes: NONE

Saving IGES Header File: D001Q001_HDR
Saving IGES Data File: D001Q001_IGS

Evaluating numbering scheme...
No errors were encountered during numbering scheme evaluation.
Numbering scheme evaluation complete.

Checking file count...
No errors were encountered during file count verification.
File Count verification complete.

No errors were encountered in Document D001.

Found file: D002
Extracting Document Declaration Header Records...
Evaluating Document Declaration Header Records...

srcsys: LMSC Austin Division, 6800 Burleson Rd., P O Box 17100, Austin TX
78760-7100
srcdocid: 3320AS1224
srcrelid: NONE
chglvl: ORIGINAL
dteisu: 19930824
dstsys: Naval Air Warfare Center - Weapons Division NAWC-35B4 China Lake Ca
93555-6001
dstdocid: 3320AS1224
dstrelid: NONE
dtetrn: 19930824
dlvacc: NONE
filcnt: Q1
ttlcls: UNCLASSIFIED
doccls: UNCLASSIFIED
doctyp: Product Data
docttl: Test IGES drawing

Found file: D002Q001
Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: 3320AS1224
dstdocid: 3320AS1224
txtfilid: NONE
figid: NONE
srcgph: NONE
doccls: UNCLASSIFIED
notes: NONE

Saving IGES Header File: D002Q001_HDR

Saving IGES Data File: D002Q001_ICS

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.
Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.
File Count verification complete.

No errors were encountered in Document D002.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

10. Appendix B - Detailed IGES Analysis

10.1 File D001Q001

10.1.1 Parser/Verifier Log

```
*****
*****  IGES PARSER/VERIFIER  *****
*****      MARCH 1993      *****
*****  IGES Data Analysis   *****
*****      (708) 344-1815    *****
*****
```

Input file is /mnt/u1210/Set017/D001/D001Q001_IGS

Checking conformance to CALS Class II (MIL-D-28000A 2/10/92)

Today is September 3, 1993 8:31 AM

```
*****
*****  CHECK FILE SYNTAX  *****
*****
```

Section	Records
Start	1
Global	3
Directory	1708 (854 Entities)
Parameter	1171
Terminate	1

NITPICK 2489: Excess precision in real constant (0.707106781186548) for
Mat [0] [0] of D 13.

NITPICK 2489: Messages regarding excess precision suppressed.

```
*****
*****  SUMMARY AND STATISTICS  *****
*****
```

*** File and Product Name Information ***

```
File name from sender = 'bgc12230.prt'
File creation Date.Time = '930812.104941'
Model change Date.Time = '930810.162925'
Author = ''
```

```
Department          = 'lad/bei'  
Product name from sender = 'C2IG (Cadkey, Inc.)'  
Destination product name = 'bgc12230.prt'
```

*** Parameter Delimiters ***

```
Delimiter = ','  
Terminator = ';'
```

*** Originating System Data ***

```
System ID          = 'CADKEY/UX v5.02 07/02/92'  
Preprocessor version = 'C2IG/UX SUN v5.02 08/05/92'  
Specification version = 9 (IGES 5.1)  
ERROR 4048: Illegal specification version for CALS Class II specified.
```

*** Precision levels ***

```
Integer bits = 16  
Floating point - Exponent = 38 Mantissa = 7  
Double precision - Exponent = 308 Mantissa = 15
```

*** Global Model Data ***

```
Model scale          = 1.0000E+00  
Unit flag            = 1  
Units                = 'IN'  
Line weights         = 1  
Maximum line thickness = 1.000000E+00  
Minimum line thickness = 1.000000E+00  
CAUTION 2317: Maximum line thickness equal to minimum thickness.  
Granularity          = 5.000000E-05  
Maximum coordinate   = 0.000000E+00  
CAUTION 2316: Maximum intended coordinate value of 0.000000E+00 will be  
defaulted to zero.
```

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

Blank status:	Visible	738
	Blanked	116
Independence:	Independent	808
	Physically Subordinate	46
	Logically Subordinate	0
	Totally Subordinate	0
Entity use:	Geometry	639

Annotation	215
Definition	0
Other	0
Logical/Positional	0
2D parametric	0
Construction geometry	0
Not Specified	0

Hierarchy:	Structure DE applies	854
	Subordinate DE applies	0
	Hierarchy property applies	0
	Not Specified	0

*** Entity Occurrence Counts ***

Entity	Form	Level	Count	Type
-----	-----	-----	-----	-----
100	0	1	8	Circular arc
100	0	19	4	
106	31	241	1	Section lines - General use, iron, brick, stone masonry
106	40	1	8	Witness line
106	40	241	8	
110	0	1	482	Line
110	0	11	9	
110	0	19	12	
110	0	256	116	
124	0	0	8	Transformation matrix
206	0	1	2	Diameter dimension
212	0	1	2	General note
212	1	1	4	General note - dual stack dimension
212	1	241	4	
212	6	1	147	General note - multiple stack/left justified
212	6	19	7	
212	6	241	4	
214	2	1	12	Leader arrow - Triangle
214	2	241	8	
216	0	1	4	Linear dimension
216	0	241	4	

ERROR 4030: CALS Class II requires that at least one drawing be defined.

*** Entity Count by Level ***

Level	Count
0	8
1	669

11	9
19	23
241	29
256	116

*** Labeling Information ***

100% of the entities are labeled.

Unlabeled 0

Label	Count	Label	Count	Label	Count
TMATRIX	8	LINE	619	GEN NOTE	168
LDR LINE	20	DIAM DIM	2	WIT LINE	16
LIN DIM	8	ARC	12	X-HATCH	1

*** Line Fonts Used in Data ***

100 102 104 106 108 110 112 114

-	-	-	-	-	-	-	-	Undefined
12	-	-	17	-	614	-	-	Solid
-	-	-	-	-	-	-	-	Dashed
-	-	-	-	-	-	-	-	Phantom
-	-	-	-	-	5	-	-	Center-line
-	-	-	-	-	-	-	-	Dotted
-	-	-	-	-	-	-	-	User defined

116 118 120 122 124 125 126 128

-	-	-	-	-	-	-	-	Undefined
-	-	-	-	8	-	-	-	Solid

<<<< PART OF LOG FILE REMOVED HERE >>>>

*** Line Widths Used in Data ***

Weight	Count	Width
Defaulted	854	(1.0000)

*** Colors Used in Data ***

Defaulted	8
Red	633
Green	152
White	61

```
*****  
***** ENTITY ANALYSIS *****  
*****
```

*** Entity type: 100

*** Entity type: 106

CAUTION 2331: Use of section lines (Form 31-38) is not recommended at D
1643.

*** Entity type: 110

-- 619 lines averaging 9.754250E-01 units --

*** Entity type: 124

8 transformation matrices, 0 non-zero translations.

*** Entity type: 206

*** Entity type: 212

184 text strings in data file.
Average text aspect ratio in file is 0.9174377.
Minimum text aspect ratio in file is 0.9000000.
Maximum text aspect ratio in file is 1.0869518.

FONTS USED IN FILE

FONT	COUNT	NAME
1	176	Default ASCII Style
1001	2	Symbol Font 1
1002	4	Symbol Font 2
1003	2	Drafting Font

*** Entity type: 214

Average arrow aspect ratio in file is 3.0000001.
Minimum arrow aspect ratio in file is 3.0000000.
Maximum arrow aspect ratio in file is 3.0000002.

*** Entity type: 216

*** Message Summary ***

2018: 1 Problems with line weight/width display information.

4000: 1 Miscellaneous CALS messages

4011: 1 Problems in the Global section

*** Error Summary ***

0 fatal errors
0 severe errors
2 errors
0 warnings
3 cautions
3679 nitpicks
0 notes

*** End of Analysis of /mnt/u1210/Set017/D001/D001Q001_IGS ***

10.1.2 Parser Log - AutoCAD R12

Title: IGESIN Journal (v5.1 Nov 05 1992)

=====

File: C:/TMP/Q8501.xli

Date: Thu, Sep 02, 1993

Time: 13:44:06

=====

EVALUATION VERSION -- NOT FOR RESALE

Translator S/N: 117-10075750

Translating from IGES file: C:/TMP/Q8501.IGS
to AutoCAD Drawing: C:\TMP\Q8501.dwg

=====

Options obtained from: default settings

Curves Approximated to Tolerance of 0.01

Surfaces Approximated to Tolerance of 0.01

Text Font/Style mapping:

IGES Text font	Style Name	ACAD Font
0	SYMBOL0	iges0
1	STANDARD	txt
2	LEROY	txt
3	FUTURA	txt
6	COMP80	txt
12	GOTHICE	gothice
13	GOTHICI	gothici
14	ROMANS	romans
17	ROMANT	romant
18	ROMAND	romand
19	OCR	txt
1001	SYMBOL1	iges1001
1002	SYMBOL2	iges1002
1003	SYMBOL3	iges1003
2001	KANJI	bigfont

IGES Linefont/AutoCAD Linetype mapping

IGES Line Font	AutoCAD linetype	Shape file
0	BYLAYER	
1	CONTINUOUS	
2	DASHED	acad.lin
3	PHANTOM	acad.lin
4	CENTER	acad.lin
5	DOT	acad.lin

Parse phase

*** Warning (IAFP__LARGER_SGL_SIG) ***
C:/TMP/Q8501.IGS, line 4: IGES file has greater number of significant digits
in single precision numbers than this system.

=====

Start Section:

Global Section:

Parameter Delimiter: ,
Record Delimiter: ;
Sending Product ID: C2IG (Cadkey, Inc.)
File Name: bgc12230.prt
System ID: CADKEY/UX v5.02 07/02/92
Preprocessor Version: C2IG/UX SUN v5.02 08/05/92
Size of Integer: 16
Sgl. Precision Mag: 38
Sgl. Precision Sig: 7
Dbl. Precision Mag: 308
Dbl. Precision Sig: 15
Receiving Product ID: bgc12230.prt
Model Space Scale: 1.000000
Unit Flag: 1
Unit String: IN
of Line Weights: 1
Maximum Line Width: 1.000000
Creation Date: 08/12/93 10:49:41
Minimum Resolution: 0.000050
Maximum Coordinate: 0.000000
Author:
Organization: lad/bei
IGES Version Number: 9
Drafting Standard: 0
Model Create/Modify Date: 08/10/93 16:29:25

Entity Summary:

Type	Form	Description
Count		

100	0	Circular Arc
12		
106	31	Section Entity
1		
106	40	Witness Line

16
110 0 Line
619
124 0 Transformation Matrix
8
206 0 Diameter Dimension
2
212 0 General Note (Simple)
2
212 1 General Note (Dual stack)
8
212 6 General Note (Left justified)
158
214 2 Leader (Triangle)
20
216 0 Linear dim - undetermined form
8

Total 854

Translation phase

*** Warning (ACAD_I2AMAKESTYLEERROR) ***
Error creating text style. Most likely could not open the
shape file for a font. Text will be forced to STANDARD.
The style attempted was named: SYMBOL3

*** Warning (ACAD_I2AMAKESTYLEERROR) ***
Error creating text style. Most likely could not open the
shape file for a font. Text will be forced to STANDARD.
The style attempted was named: SYMBOL1

*** Warning (ACAD_I2AMAKESTYLEERROR) ***
Error creating text style. Most likely could not open the
shape file for a font. Text will be forced to STANDARD.
The style attempted was named: SYMBOL2

IGES Entity Summary

Type	Form	Description	Count	Processed	Errors
=====	=====	=====	=====	=====	=====
100	0	Circular Arc	12	12	0
106	31	Section Entity	1	1	0
106	40	Witness Line	16	16	0
110	0	Line	619	619	0
206	0	Diameter Dimension	2	2	0
212	0	General Note (Simple)	2	2	0

212	1 General Note (Dual stack)	8	8	0
212	6 General Note (Left justified)	158	158	0
214	2 Leader (Triangle)	20	20	0
216	0 Linear dim - undetermined form	8	8	0
===== ===== =====				
Totals		846	846	0

AutoCAD Entity Summary

Entity	Created	Errors
LINE	716	0
CIRCLE	6	0
TEXT	166	0
ARC	6	0
INSERT	8	0
POLYLINE	1	0
DIMENSION	10	0
BLOCK	9	0
Totals	=====	=====
	922	0

Error Summary:

The following message was issued 1 time(s)
IGES file has greater number of significant digits in single precision
numbers than this system.

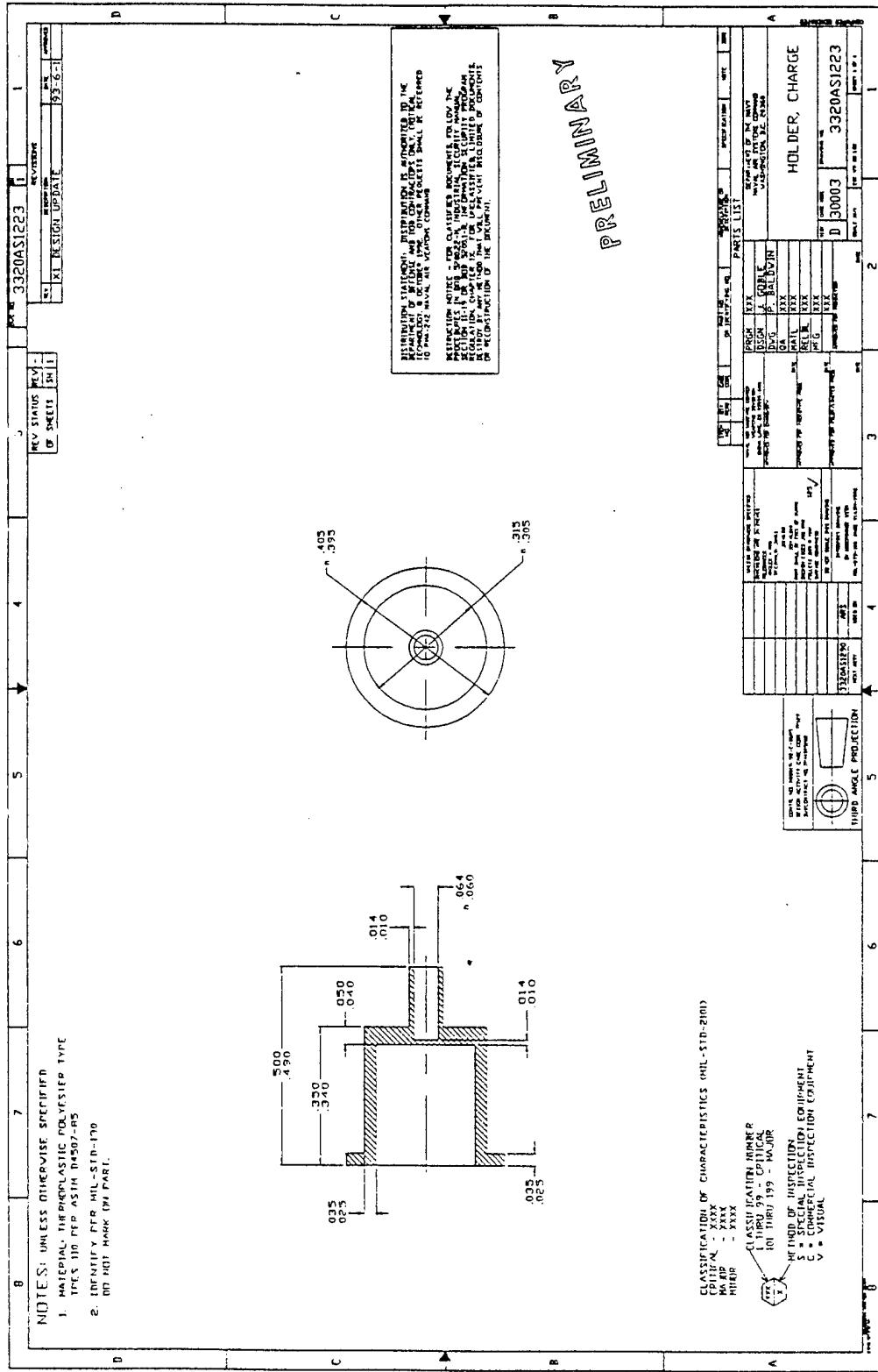
The following message was issued 8 time(s)
Error creating text style. Most likely could not open the
shape file for a font. Text will be forced to STANDARD.
The style attempted was named: %s

Status: 0
Warning: 9
Error: 0
Fatal: 0

Elapsed Time:

Processor: 00:00:18
Clock: 00:00:19

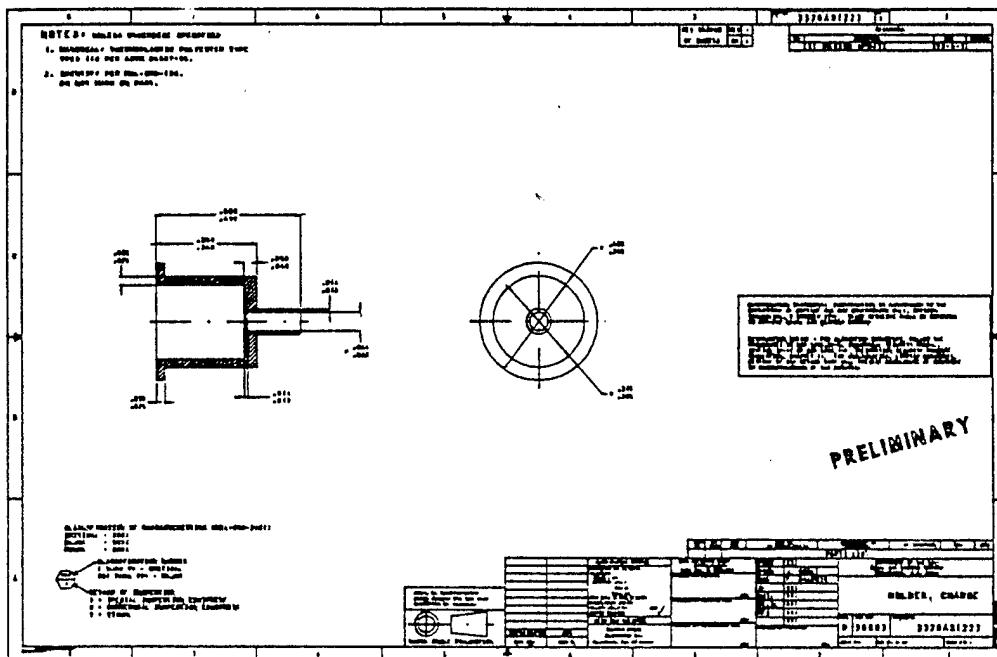
10.1.3 Output AutoCAD R12



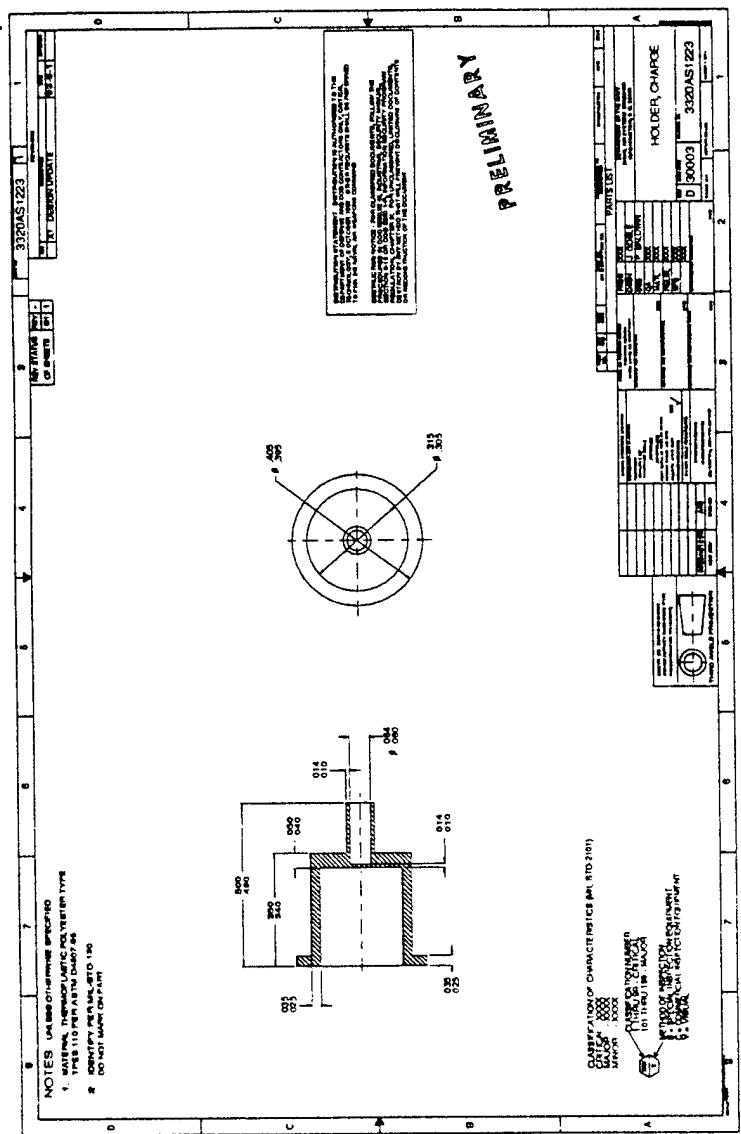
10.1.5 Output IGESView

8	7	6	5	↓	4	3	REV 3320AS1223 1 1	REVISION																																																																											
						REV STATUS	REV - OF SHEETS	REV - DATE																																																																											
					SH 1			03-6-1																																																																											
X1 DESIGN UPDATE																																																																																			
D D																																																																																			
<p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <p>1. MATERIAL: THERMOPLASTIC POLYESTER TYPE TIES TO PER ASTM D4907-85</p> <p>2. IDENTIFY PER ML-STD-130 DO NOT MARK ON PART</p>																																																																																			
<p>DISTRIBUTION STATEMENT: DISTRIBUTION IS AUTHORIZED TO THE DIVISION OF TEST AND DEVELOPMENT, NAVAL AIR WARFARE TECHNOLOGY CENTER, OCTOBER 1993. DIVISION REQUESTS SHALL BE REFERRED TO PMA-242 NAVAL AIR WEAPONS CENTER.</p> <p>DISTRIBUTION NOTICE: FOR CLASSIFIED DOCUMENTS, FOLLOW THE PROCEDURES IN DOA 2200-27-4, INDUSTRIAL SECURITY, MILITARY INFORMATION SYSTEMS SECURITY REGULATIONS, 1985, COMINT REGULATION, CHARTERED IN FOR UNCLASSIFIED, LIMITED DOCUMENTS, DOA 2200-27-4, 1985, PREVENT DISCLOSURE OR RECONSTRUCTION OF THE DOCUMENT.</p>																																																																																			
<i>PRELIMINARY</i>																																																																																			
<p>CLASSIFICATION OF CHARACTERISTICS (ML-STD-210)</p> <p>Critical - XXXX Major - XXXX Minor - XXXX</p> <p>CLASSIFICATION NUMBER 1 THRU 99 - CRITICAL 100 THRU 199 - MAJOR</p> <p>METHOD OF INSPECTION S = SPECIAL INSPECTION EQUIPMENT C = COMMERCIAL INSPECTION EQUIPMENT V = VISUAL</p>																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">S</td> <td style="width: 20%;">7</td> <td style="width: 20%;">I</td> <td style="width: 20%;">6</td> <td style="width: 20%;">I</td> </tr> <tr> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td colspan="5" style="text-align: center;">PARTS LIST</td> </tr> <tr> <td colspan="5"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ITEM NO.</td> <td style="width: 20%;">DESCRIPTION</td> <td style="width: 20%;">QUANTITY</td> <td style="width: 20%;">PICKUP</td> <td style="width: 20%;">SPECIFICATION</td> </tr> <tr> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> <tr> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> </tr> <tr> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> </tr> <tr> <td>OP</td> <td>100</td> <td>OP</td> <td>100</td> <td>OP</td> </tr> <tr> <td>QATL</td> <td>100</td> <td>QATL</td> <td>100</td> <td>QATL</td> </tr> <tr> <td>HOUR</td> <td>100</td> <td>HOUR</td> <td>100</td> <td>HOUR</td> </tr> <tr> <td>MFC</td> <td>100</td> <td>MFC</td> <td>100</td> <td>MFC</td> </tr> <tr> <td>PC</td> <td>100</td> <td>PC</td> <td>100</td> <td>PC</td> </tr> <tr> <td colspan="5" style="text-align: center;">HOLDER, CHARGE</td> </tr> <tr> <td colspan="5" style="text-align: center;">D 30003 3320AS1223</td> </tr> </table> </td> </tr> </table>									S	7	I	6	I	5	4	3	2	1	PARTS LIST					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ITEM NO.</td> <td style="width: 20%;">DESCRIPTION</td> <td style="width: 20%;">QUANTITY</td> <td style="width: 20%;">PICKUP</td> <td style="width: 20%;">SPECIFICATION</td> </tr> <tr> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> <tr> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> </tr> <tr> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> </tr> <tr> <td>OP</td> <td>100</td> <td>OP</td> <td>100</td> <td>OP</td> </tr> <tr> <td>QATL</td> <td>100</td> <td>QATL</td> <td>100</td> <td>QATL</td> </tr> <tr> <td>HOUR</td> <td>100</td> <td>HOUR</td> <td>100</td> <td>HOUR</td> </tr> <tr> <td>MFC</td> <td>100</td> <td>MFC</td> <td>100</td> <td>MFC</td> </tr> <tr> <td>PC</td> <td>100</td> <td>PC</td> <td>100</td> <td>PC</td> </tr> <tr> <td colspan="5" style="text-align: center;">HOLDER, CHARGE</td> </tr> <tr> <td colspan="5" style="text-align: center;">D 30003 3320AS1223</td> </tr> </table>					ITEM NO.	DESCRIPTION	QUANTITY	PICKUP	SPECIFICATION	100	100	100	100	100	DSO	J. GORE	DSO	J. GORE	DSO	DHC	P. BALDWIN	DHC	P. BALDWIN	DHC	OP	100	OP	100	OP	QATL	100	QATL	100	QATL	HOUR	100	HOUR	100	HOUR	MFC	100	MFC	100	MFC	PC	100	PC	100	PC	HOLDER, CHARGE					D 30003 3320AS1223				
S	7	I	6	I																																																																															
5	4	3	2	1																																																																															
PARTS LIST																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ITEM NO.</td> <td style="width: 20%;">DESCRIPTION</td> <td style="width: 20%;">QUANTITY</td> <td style="width: 20%;">PICKUP</td> <td style="width: 20%;">SPECIFICATION</td> </tr> <tr> <td>100</td> <td>100</td> <td>100</td> <td>100</td> <td>100</td> </tr> <tr> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> <td>J. GORE</td> <td>DSO</td> </tr> <tr> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> <td>P. BALDWIN</td> <td>DHC</td> </tr> <tr> <td>OP</td> <td>100</td> <td>OP</td> <td>100</td> <td>OP</td> </tr> <tr> <td>QATL</td> <td>100</td> <td>QATL</td> <td>100</td> <td>QATL</td> </tr> <tr> <td>HOUR</td> <td>100</td> <td>HOUR</td> <td>100</td> <td>HOUR</td> </tr> <tr> <td>MFC</td> <td>100</td> <td>MFC</td> <td>100</td> <td>MFC</td> </tr> <tr> <td>PC</td> <td>100</td> <td>PC</td> <td>100</td> <td>PC</td> </tr> <tr> <td colspan="5" style="text-align: center;">HOLDER, CHARGE</td> </tr> <tr> <td colspan="5" style="text-align: center;">D 30003 3320AS1223</td> </tr> </table>					ITEM NO.	DESCRIPTION	QUANTITY	PICKUP	SPECIFICATION	100	100	100	100	100	DSO	J. GORE	DSO	J. GORE	DSO	DHC	P. BALDWIN	DHC	P. BALDWIN	DHC	OP	100	OP	100	OP	QATL	100	QATL	100	QATL	HOUR	100	HOUR	100	HOUR	MFC	100	MFC	100	MFC	PC	100	PC	100	PC	HOLDER, CHARGE					D 30003 3320AS1223																												
ITEM NO.	DESCRIPTION	QUANTITY	PICKUP	SPECIFICATION																																																																															
100	100	100	100	100																																																																															
DSO	J. GORE	DSO	J. GORE	DSO																																																																															
DHC	P. BALDWIN	DHC	P. BALDWIN	DHC																																																																															
OP	100	OP	100	OP																																																																															
QATL	100	QATL	100	QATL																																																																															
HOUR	100	HOUR	100	HOUR																																																																															
MFC	100	MFC	100	MFC																																																																															
PC	100	PC	100	PC																																																																															
HOLDER, CHARGE																																																																																			
D 30003 3320AS1223																																																																																			

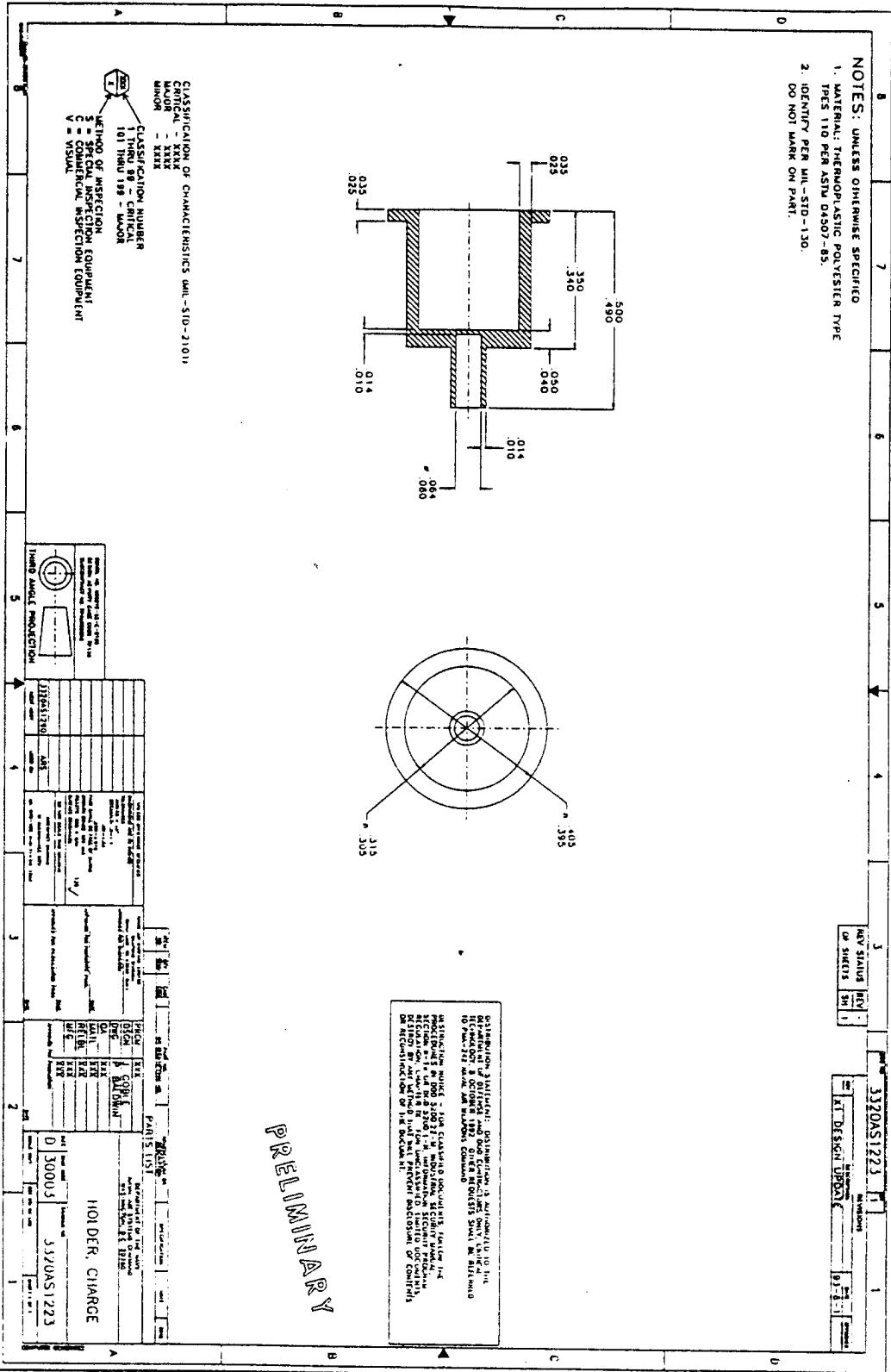
10.1.6 Output IGESWorks



10.1.7 Output iges2draw/IslandDraw



10.1.8 Output Preview



10.2 File D002Q001

10.2.1 Parser/Verifier Log

```
*****
***** IGES PARSER/VERIFIER *****
***** MARCH 1993 *****
***** IGES Data Analysis *****
***** (708) 344-1815 *****
*****
```

Input file is /mnt/u1210/Set017/D002/D002Q001_IGS

Checking conformance to CALS Class II (MIL-D-28000A 2/10/92)

Today is September 3, 1993 8:31 AM

```
*****
***** CHECK FILE SYNTAX *****
*****
```

Section	Records
Start	1
Global	3
Directory	1566 (783 Entities)
Parameter	961
Terminate	1

NITPICK 2489: Excess precision in real constant (0.707106781186548) for
Mat[0][0] of D 13.

NITPICK 2489: Messages regarding excess precision suppressed.

```
*****
***** SUMMARY AND STATISTICS *****
*****
```

*** File and Product Name Information ***

```
File name from sender = 'bgc12240.prt'
File creation Date.Time = '930812.105332'
Model change Date.Time = '930810.163041'
Author = ''
Department = 'lad/bei'
Product name from sender = 'C2IG (Cadkey, Inc.)'
Destination product name = 'bgc12240.prt'
```

*** Parameter Delimiters ***

```
Delimiter = ','  
Terminator = ';'
```

*** Originating System Data ***

```
System ID          = 'CADKEY/UX v5.02 07/02/92'  
Preprocessor version = 'C2IG/UX SUN v5.02 08/05/92'  
Specification version = 9 (IGES 5.1)  
ERROR 4048: Illegal specification version for CALS Class II specified.
```

*** Precision levels ***

```
Integer bits = 16  
Floating point - Exponent = 38 Mantissa = 7  
Double precision - Exponent = 308 Mantissa = 15
```

*** Global Model Data ***

```
Model scale          = 1.0000E+00  
Unit flag            = 1  
Units                = 'IN'  
Line weights         = 1  
Maximum line thickness = 1.000000E+00  
Minimum line thickness = 1.000000E+00  
CAUTION 2317: Maximum line thickness equal to minimum thickness.  
Granularity          = 5.000000E-05  
Maximum coordinate   = 0.000000E+00  
CAUTION 2316: Maximum intended coordinate value of 0.000000E+00 will be  
              defaulted to zero.
```

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

Blank status:	Visible	667
	Blanked	116
Independence:	Independent	775
	Physically Subordinate	8
	Logically Subordinate	0
	Totally Subordinate	0
Entity use:	Geometry	625
	Annotation	158
	Definition	0
	Other	0

Logical/Positional	0
2D parametric	0
Construction geometry	0
Not Specified	0

Hierarchy:	Structure DE applies	783
	Subordinate DE applies	0
	Hierarchy property applies	0
	Not Specified	0

*** Entity Occurrence Counts ***

Entity	Form	Level	Count	Type
-----	----	-----	-----	-----
100	0	1	8	Circular arc
100	0	11	1	
106	40	241	2	Witness line
110	0	1	486	Line
110	0	11	6	
110	0	256	116	
124	0	0	8	Transformation matrix
206	0	1	1	Diameter dimension
212	0	1	1	General note
212	1	241	1	General note - dual stack dimension
212	6	1	135	General note - multiple stack/left justified
212	6	19	9	
212	6	241	4	
214	2	1	2	Leader arrow - Triangle
214	2	241	2	
216	0	241	1	Linear dimension

ERROR 4030: CALS Class II requires that at least one drawing be defined.

*** Entity Count by Level ***

Level	Count
0	8
1	633
11	7
19	9
241	10
256	116

*** Labeling Information ***

100% of the entities are labeled.

Unlabeled 0

Label	Count	Label	Count	Label	Count
TMATRIX	8	LINE	608	GEN NOTE	150
LDR LINE	4	DIAM DIM	1	ARC	9
WIT LINE	2	LIN DIM	1		

*** Line Fonts Used in Data ***

100 102 104 106 108 110 112 114

-	-	-	-	-	-	-	-	Undefined
9	-	-	2	-	604	-	-	Solid
-	-	-	-	-	-	-	-	Dashed
-	-	-	-	-	-	-	-	Phantom
-	-	-	-	-	4	-	-	Center-line
-	-	-	-	-	-	-	-	Dotted
-	-	-	-	-	-	-	-	User defined

116 118 120 122 124 125 126 128

-	-	-	-	-	-	-	-	Undefined
-	-	-	-	-	8	-	-	Solid

<<<< PART OF LOG FILE REMOVED HERE >>>>

*** Line Widths Used in Data ***

Weight	Count	Width
Defaulted	783	(1.0000)

*** Colors Used in Data ***

Defaulted	8
Red	627
Green	122
White	26

***** ENTITY ANALYSIS *****

*** Entity type: 100

*** Entity type: 106

```
*** Entity type: 110
-- 608 lines averaging 8.090938E-01 units --
*** Entity type: 124
8 transformation matrices, 0 non-zero translations.
*** Entity type: 206
*** Entity type: 212
ERROR 2279: Text box width (0.000000E+00) is negative or zero at D 1535.
ERROR 2279: Text box width (0.000000E+00) is negative or zero at D 1537.
156 text strings in data file.
Average text aspect ratio in file is 0.9020091.
Minimum text aspect ratio in file is 0.0000000.
Maximum text aspect ratio in file is 1.0869518.
```

FONTS USED IN FILE

FONT	COUNT	NAME
1	151	Default ASCII Style
1002	4	Symbol Font 2
1003	1	Drafting Font

```
*** Entity type: 214
Average arrow aspect ratio in file is 3.0000001.
Minimum arrow aspect ratio in file is 3.0000000
Maximum arrow aspect ratio in file is 3.0000002.
```

```
*** Entity type: 216
```

*** Message Summary ***

```
2012: 2 Inconsistent data for entity definition.
2018: 1 Problems with line weight/width display information.
4000: 1 Miscellaneous CALS messages
4011: 1 Problems in the Global section
```

*** Error Summary ***

```
0 fatal errors
0 severe errors
4 errors
0 warnings
```

2 cautions
2999 nitpicks
0 notes

*** End of Analysis of /mnt/u1210/Set017/D002/D002Q001_IGS ***

10.2.2 Parser Log - AutoCAD R12

Title: IGESIN Journal (v5.1 Nov 05 1992)

File: C:/TMP/Q8502.xli

Date: Thu, Sep 02, 1993

Time: 13:44:30

EVALUATION VERSION -- NOT FOR RESALE

Translator S/N: 117-10075750

Translating from IGES file: C:/TMP/Q8502.IGS
to AutoCAD Drawing: C:\TMP\Q8502.dwg

Options obtained from: default settings
Curves Approximated to Tolerance of 0.01
Surfaces Approximated to Tolerance of 0.01

Text Font/Style mapping:

IGES Text font	Style Name	ACAD Font
0	SYMBOL0	iges0
1	STANDARD	txt
2	LEROY	txt
3	FUTURA	txt
6	COMP80	txt
12	GOTHICE	gothice
13	GOTHICI	gothici
14	ROMANS	romans
17	ROMANT	romant
18	ROMAND	romand
19	OCR	txt
1001	SYMBOL1	iges1001
1002	SYMBOL2	iges1002
1003	SYMBOL3	iges1003
2001	KANJI	bigfont

IGES Linefont/AutoCAD Linetype mapping

IGES Line Font	AutoCAD linetype	Shape file
0	BYLAYER	
1	CONTINUOUS	
2	DASHED	acad.lin
3	PHANTOM	acad.lin
4	CENTER	acad.lin
5	DOT	acad.lin

=====
Parse phase

*** Warning (IAFP_LARGER_SGL_SIG) ***

C:/TMP/Q8502.IGS, line 4: IGES file has greater number of significant digits in single precision numbers than this system.

*** Warning (IEVM_BAD_BOX_WIDTH_NEG_212) ***

(DE 1535, TF 212:6) Entity's substring #1 character box width is negative.

Action taken: Box width has been made positive.

*** Warning (IEVM_BAD_BOX_WIDTH_212) ***

(DE 1535, TF 212:6) Entity's substring #1 character box width equals zero.

Action taken: Box width has been changed to the default specified:
1.0000000e+000.

*** Warning (IEVM_BAD_BOX_WIDTH_NEG_212) ***

(DE 1537, TF 212:6) Entity's substring #1 character box width is negative.

Action taken: Box width has been made positive.

*** Warning (IEVM_BAD_BOX_WIDTH_212) ***

(DE 1537, TF 212:6) Entity's substring #1 character box width equals zero.

Action taken: Box width has been changed to the default specified:
1.0000000e+000.

=====
Start Section:

Global Section:

Parameter Delimiter: ,

Record Delimiter: ;

Sending Product ID: C2IG (Cadkey, Inc.)

File Name: bgc12240.prt
System ID: CADKEY/UX v5.02 07/02/92
Preprocessor Version: C2IG/UX SUN v5.02 08/05/92
Size of Integer: 16
Sgl. Precision Mag: 38
Sgl. Precision Sig: 7
Dbl. Precision Mag: 308
Dbl. Precision Sig: 15
Receiving Product ID: bgc12240.prt
Model Space Scale: 1.000000
Unit Flag: 1
Unit String: IN
of Line Weights: 1
Maximum Line Width: 1.000000
Creation Date: 08/12/93 10:53:32
Minimum Resolution: 0.000050
Maximum Coordinate: 0.000000
Author:
Organization: lad/bei
IGES Version Number: 9
Drafting Standard: 0
Model Create/Modify Date: 08/10/93 16:30:41

Entity Summary:

Type Count	Form	Description
100	0	Circular Arc
9		
106	40	Witness Line
2		
110	0	Line
608		
124	0	Transformation Matrix
8		
206	0	Diameter Dimension
1		
212	0	General Note (Simple)
1		
212	1	General Note (Dual stack)
1		
212	6	General Note (Left justified)
148		
214	2	Leader (Triangle)
4		
216	0	Linear dim - undetermined form
1		

Total 783

Translation phase

*** Warning (ACAD_I2AMAKESTYLEERROR) ***

Error creating text style. Most likely could not open the shape file for a font. Text will be forced to STANDARD.

The style attempted was named: SYMBOL3

*** Warning (ACAD_I2AMAKESTYLEERROR) ***

Error creating text style. Most likely could not open the shape file for a font. Text will be forced to STANDARD.

The style attempted was named: SYMBOL2

IGES Entity Summary

Type	Form	Description	Count	Processed	Errors
100	0	Circular Arc	9	9	0
106	40	Witness Line	2	2	0
110	0	Line	608	608	0
206	0	Diameter Dimension	1	1	0
212	0	General Note (Simple)	1	1	0
212	1	General Note (Dual stack)	1	1	0
212	6	General Note (Left justified)	148	148	0
214	2	Leader (Triangle)	4	4	0
216	0	Linear dim - undetermined form	1	1	0
Totals			775	775	0

AutoCAD Entity Summary

Entity	Created	Errors
LINE	609	0
CIRCLE	3	0
TEXT	153	0
ARC	6	0
INSERT	5	0
POLYLINE	1	0
DIMENSION	2	0
BLOCK	6	0
Totals	785	0

Error Summary:

The following message was issued 1 time(s)
IGES file has greater number of significant digits in single precision
numbers than this system.

The following message was issued 2 time(s)
Entity's substring #%d character box width equals zero.

The following message was issued 2 time(s)
Entity's substring #%d character box width is negative.

The following message was issued 5 time(s)
Error creating text style. Most likely could not open the
shape file for a font. Text will be forced to STANDARD.
The style attempted was named: %s

Status: 0
Warning: 10
Error: 0
Fatal: 0

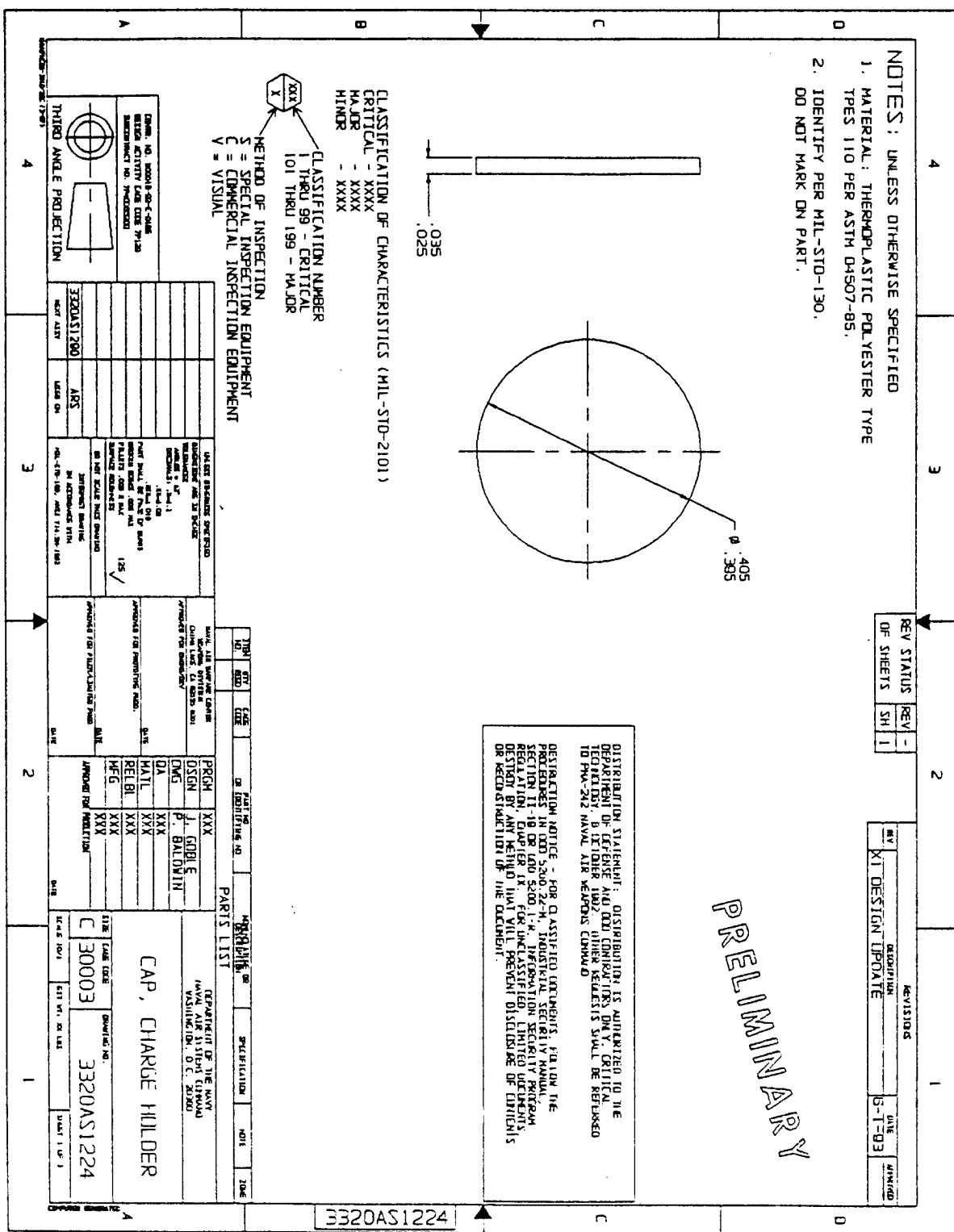
Elapsed Time:

Processor: 00:00:15
Clock: 00:00:15

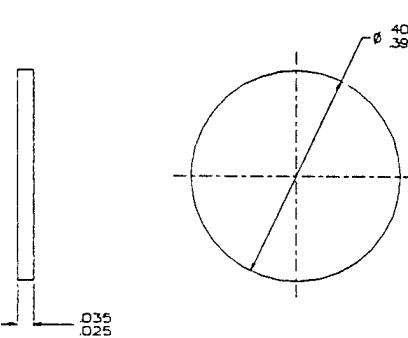
10.2.3 Output AutoCAD R12

NOTE S: UNLESS OTHERWISE SPECIFIED		REV STATUS		REV -	REVISIONS																																																																																																																																																				
		OF SHEETS	SH 1		REV	DESCRIPTION	DATE																																																																																																																																																		
1. MATERIAL: THERMOPLASTIC POLYESTER TYPE					X	DESIGN UP DATE		5-1-93																																																																																																																																																	
100 PER ASTM D4507-85.																																																																																																																																																									
2. IDENTIFY PER MIL-STD-130. DO NOT MARK ON PART.																																																																																																																																																									
D																																																																																																																																																									
PRELIMINARY																																																																																																																																																									
B	<p>CLASSIFICATION OF CHARACTERISTICS (MIL-STD-2101)</p> <table border="1"> <tr><td>Critical - XXXX</td></tr> <tr><td>Major - XXXX</td></tr> <tr><td>Minor - XXXX</td></tr> </table> <p>CLASSIFICATION NUMBER 1 THRU 99 - CRITICAL 101 THRU 199 - MAJOR</p> <p>Method of Inspection S = Standard Inspection Equipment C = Commercial Inspection Equipment V = Visual</p> <p>XX X</p>									Critical - XXXX	Major - XXXX	Minor - XXXX																																																																																																																																													
Critical - XXXX																																																																																																																																																									
Major - XXXX																																																																																																																																																									
Minor - XXXX																																																																																																																																																									
C																																																																																																																																																									
A	<p>CLASSIFICATION OF INSPECTION EQUIPMENT</p> <table border="1"> <tr><td>CRITICAL: 100-1-72-C, 9185 SUBCONTRACT NO. 314805700</td></tr> <tr><td>-</td></tr> <tr><td>NO SCALE INCH DRAWING</td></tr> <tr><td>DISTINCT DRAWING</td></tr> <tr><td>REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982</td></tr> </table> <p>Third Angle Projection</p> <p>3320AS1220</p>									CRITICAL: 100-1-72-C, 9185 SUBCONTRACT NO. 314805700	-	NO SCALE INCH DRAWING	DISTINCT DRAWING	REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982																																																																																																																																											
CRITICAL: 100-1-72-C, 9185 SUBCONTRACT NO. 314805700																																																																																																																																																									
-																																																																																																																																																									
NO SCALE INCH DRAWING																																																																																																																																																									
DISTINCT DRAWING																																																																																																																																																									
REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982																																																																																																																																																									
3	<p>3</p>																																																																																																																																																								
4	<p>4</p>																																																																																																																																																								
D																																																																																																																																																									
<p>DISTRIBUTION STATEMENT: DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND DOD CONTRACTORS ONLY. CRITICAL TECHNOLOGY, 8 OCTOBER 1992. OTHER REQUESTS SHALL BE REFERRED TO PHA-242 NAVAL AIR WEAPONS COMMAND</p> <p>DESTRUCTION NOTICE - FOR CLASSIFIED DOCUMENTS, FOLLOW THE PROCEDURES IN DOD 5200.25-1, INFORMATION SECURITY PROGRAM SECTION II, CHAPTER 1, AND DOD 5200.25-1A, INFORMATION SECURITY PROGRAM REGULATION, CHAPTER X FOR UNCLASSIFIED DOCUMENTS. DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.</p>																																																																																																																																																									
<p>3320AS1224</p>																																																																																																																																																									
<table border="1"> <tr><td>ITEM NO.</td><td>REV.</td><td>DATE</td><td>CHG</td><td>PART NO.</td><td>DESCRIPTION</td><td>SPECIFICATION</td><td>NOTE</td><td>ZONE</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="9">PARTS LIST</td></tr> <tr><td>PRGM</td><td>XXX</td><td></td><td></td><td>J. GORLIC</td><td></td><td></td><td></td><td></td></tr> <tr><td>DGN</td><td></td><td></td><td></td><td>P. BALIWIN</td><td></td><td></td><td></td><td></td></tr> <tr><td>DWG</td><td></td><td></td><td></td><td>DA</td><td></td><td></td><td></td><td></td></tr> <tr><td>WHL</td><td>XXX</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>RELBL</td><td>XXX</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>HFG</td><td>XXX</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="9">APPROVED FOR RELEASE FROM:</td></tr> <tr><td colspan="9">APPROVED FOR RELEASE FROM PHA 123 /</td></tr> <tr><td colspan="9">APPROVED FOR RESTRICTED FORM:</td></tr> <tr><td colspan="9">APPROVED FOR RESTRICTED FORM BY STAN FISCHER</td></tr> <tr><td colspan="9">APPROVED FOR RESTRICTED FORM NO SCALE INCH DRAWING</td></tr> <tr><td colspan="9">DISTINCT DRAWING</td></tr> <tr><td colspan="9">REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982</td></tr> </table>										ITEM NO.	REV.	DATE	CHG	PART NO.	DESCRIPTION	SPECIFICATION	NOTE	ZONE										PARTS LIST									PRGM	XXX			J. GORLIC					DGN				P. BALIWIN					DWG				DA					WHL	XXX								RELBL	XXX								HFG	XXX								APPROVED FOR RELEASE FROM:									APPROVED FOR RELEASE FROM PHA 123 /									APPROVED FOR RESTRICTED FORM:									APPROVED FOR RESTRICTED FORM BY STAN FISCHER									APPROVED FOR RESTRICTED FORM NO SCALE INCH DRAWING									DISTINCT DRAWING									REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982								
ITEM NO.	REV.	DATE	CHG	PART NO.	DESCRIPTION	SPECIFICATION	NOTE	ZONE																																																																																																																																																	
PARTS LIST																																																																																																																																																									
PRGM	XXX			J. GORLIC																																																																																																																																																					
DGN				P. BALIWIN																																																																																																																																																					
DWG				DA																																																																																																																																																					
WHL	XXX																																																																																																																																																								
RELBL	XXX																																																																																																																																																								
HFG	XXX																																																																																																																																																								
APPROVED FOR RELEASE FROM:																																																																																																																																																									
APPROVED FOR RELEASE FROM PHA 123 /																																																																																																																																																									
APPROVED FOR RESTRICTED FORM:																																																																																																																																																									
APPROVED FOR RESTRICTED FORM BY STAN FISCHER																																																																																																																																																									
APPROVED FOR RESTRICTED FORM NO SCALE INCH DRAWING																																																																																																																																																									
DISTINCT DRAWING																																																																																																																																																									
REFERENCE WITH MIL-151-NR AND Y1-SPEC-1982																																																																																																																																																									
<table border="1"> <tr><td>SHEET NO.</td><td>ISSUING NO.</td><td>SCALE 1:1</td><td>DATE</td><td>1</td></tr> <tr><td>1</td><td>C 30003</td><td>3320AS1224</td><td></td><td></td></tr> <tr><td colspan="4">SCALE 1:1</td><td>1</td></tr> <tr><td colspan="4">1</td><td>1</td></tr> </table>										SHEET NO.	ISSUING NO.	SCALE 1:1	DATE	1	1	C 30003	3320AS1224			SCALE 1:1				1	1				1																																																																																																																												
SHEET NO.	ISSUING NO.	SCALE 1:1	DATE	1																																																																																																																																																					
1	C 30003	3320AS1224																																																																																																																																																							
SCALE 1:1				1																																																																																																																																																					
1				1																																																																																																																																																					

10.2.4 Output Cadkey v5.02



10.2.5 Output IGESView

4	3	2	1																																																
<p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <ol style="list-style-type: none"> 1. MATERIAL: THERMOPLASTIC POLYESTER TYPE TPES 110 PER ASTM D4507-85. 2. IDENTIFY PER MIL-STD-130 DO NOT MARK ON PART. 		REV STATUS OF SHEETS	REV - SH 1																																																
		REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>REV</td> <td>DESCRIPTION</td> <td>BAR</td> <td>APPROVED</td> </tr> <tr> <td>X1</td> <td>DESIGN UPDATE</td> <td>5-1-93</td> <td></td> </tr> </table>		REV	DESCRIPTION	BAR	APPROVED	X1	DESIGN UPDATE	5-1-93																																									
REV	DESCRIPTION	BAR	APPROVED																																																
X1	DESIGN UPDATE	5-1-93																																																	
<i>PRELIMINARY</i>																																																			
																																																			
<p>DISTRIBUTION STATEMENT: DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND DOD CONTRACTORS ONLY. CRITICAL TECHNOLOGY, 8 OCTOBER 1992. OTHER REQUESTS SHALL BE REFERRED TO PMA-242 NAVAL AIR WEAPONS COMMAND</p> <p>DESTRUCTION NOTICE: FOR CLASSIFIED DOCUMENTS, FOLLOW THE PROCEDURES IN DOD 5200.22-M, INDUSTRIAL SECURITY MANUAL, SECTION I-1 OR DOD 5200.1-R, INFORMATION SECURITY PROGRAM REQUIREMENTS. CHAMBERS, PMA-242, UNCLASSIFIED, LIMITED DOCUMENTS, DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.</p>																																																			
<p>CLASSIFICATION OF CHARACTERISTICS (ML-STD-2101)</p> <p>Critical - XXXX Major - XXXX Minor - XXXX</p> <p>CLASSIFICATION NUMBER</p> <p>1 THRU 99 - CRITICAL 101 THRU 999 - MAJOR</p> <p>METHOD OF INSPECTION</p> <p>S = SPECIAL INSPECTION EQUIPMENT C = COMMERCIAL INSPECTION EQUIPMENT V = VISUAL</p> <p>THIRD ANGLE PROJECTION</p> <p>3320AS129C ARS NOT ASI UED OI</p>																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>ITEM</th> <th>REV</th> <th>DATE</th> <th>PART NO.</th> <th>QUANTITY</th> <th>DESCRIPTION</th> <th>SPECIFICATION</th> <th>NOTE</th> <th>DRAWING NO.</th> </tr> <tr> <td colspan="9" style="text-align: center;">PARTS LIST</td> </tr> <tr> <td colspan="9"> <p>NAME OF MANUFACTURED SOURCE OF DRAWING DATE LAST OF DRAWING APPROVED FOR RELEASE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>FROM</td> <td>XXX</td> <td>DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376</td> </tr> <tr> <td>DSGN</td> <td>GOOLE</td> <td></td> </tr> <tr> <td>DWG</td> <td>BALDWIN</td> <td></td> </tr> <tr> <td>CA</td> <td>XXX</td> <td></td> </tr> <tr> <td>MATL</td> <td>XXX</td> <td></td> </tr> <tr> <td>REL</td> <td>XXX</td> <td></td> </tr> <tr> <td>MFG</td> <td>XXX</td> <td></td> </tr> </table> <p>APPROVED FOR RELEASE, PMA APPROVED FOR PRODUCTION</p> <p>REF ID: CASE CODE: DRAWING NO: C 30003 3320AS1224</p> </td> </tr> </table>				ITEM	REV	DATE	PART NO.	QUANTITY	DESCRIPTION	SPECIFICATION	NOTE	DRAWING NO.	PARTS LIST									<p>NAME OF MANUFACTURED SOURCE OF DRAWING DATE LAST OF DRAWING APPROVED FOR RELEASE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>FROM</td> <td>XXX</td> <td>DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376</td> </tr> <tr> <td>DSGN</td> <td>GOOLE</td> <td></td> </tr> <tr> <td>DWG</td> <td>BALDWIN</td> <td></td> </tr> <tr> <td>CA</td> <td>XXX</td> <td></td> </tr> <tr> <td>MATL</td> <td>XXX</td> <td></td> </tr> <tr> <td>REL</td> <td>XXX</td> <td></td> </tr> <tr> <td>MFG</td> <td>XXX</td> <td></td> </tr> </table> <p>APPROVED FOR RELEASE, PMA APPROVED FOR PRODUCTION</p> <p>REF ID: CASE CODE: DRAWING NO: C 30003 3320AS1224</p>									FROM	XXX	DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376	DSGN	GOOLE		DWG	BALDWIN		CA	XXX		MATL	XXX		REL	XXX		MFG	XXX	
ITEM	REV	DATE	PART NO.	QUANTITY	DESCRIPTION	SPECIFICATION	NOTE	DRAWING NO.																																											
PARTS LIST																																																			
<p>NAME OF MANUFACTURED SOURCE OF DRAWING DATE LAST OF DRAWING APPROVED FOR RELEASE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>FROM</td> <td>XXX</td> <td>DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376</td> </tr> <tr> <td>DSGN</td> <td>GOOLE</td> <td></td> </tr> <tr> <td>DWG</td> <td>BALDWIN</td> <td></td> </tr> <tr> <td>CA</td> <td>XXX</td> <td></td> </tr> <tr> <td>MATL</td> <td>XXX</td> <td></td> </tr> <tr> <td>REL</td> <td>XXX</td> <td></td> </tr> <tr> <td>MFG</td> <td>XXX</td> <td></td> </tr> </table> <p>APPROVED FOR RELEASE, PMA APPROVED FOR PRODUCTION</p> <p>REF ID: CASE CODE: DRAWING NO: C 30003 3320AS1224</p>									FROM	XXX	DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376	DSGN	GOOLE		DWG	BALDWIN		CA	XXX		MATL	XXX		REL	XXX		MFG	XXX																							
FROM	XXX	DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20376																																																	
DSGN	GOOLE																																																		
DWG	BALDWIN																																																		
CA	XXX																																																		
MATL	XXX																																																		
REL	XXX																																																		
MFG	XXX																																																		

10.2.6 Output IGESWorks

NOTES: UNLESS OTHERWISE SPECIFIED		REV STATUS	REV -	REFERENCE											
1. MATERIAL: THERMOPLASTIC POLYESTER TYPE TYPE 110 PER ASTM D4507-85		0	0	1											
2. IDENTIFY PER MIL-STD-130. DO NOT MARK ON PART.				2) DESIGN UPDATE 0-1-93											
<p style="text-align: right;"><i>PRELIMINARY</i></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <small>REPRODUCTION, REPRINTING, OR DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND ITS CONTRACTORS ONLY. CRITICAL TECHNOLOGY: 6 OCTOBER 1991. OTHER REFERENCES SHALL BE REFERENCED TO PRO-SET Naval Air Warfare Division.</small> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <small>PROHIBITED: REPRODUCTION, REPRINTING, OR DISTRIBUTION IS PROHIBITED FOR CLASSIFIED DOCUMENTS. THIS IS THE PROPERTY OF THE GOVERNMENT AS DEFINED IN THE GOVERNMENT PURCHASE RECOVERY ACT. THIS DOCUMENT IS A PROPERTY OF THE GOVERNMENT. UNAUTHORIZED REPRODUCTION, REPRINTING, OR DISTRIBUTION IS ILLEGAL. RESTRICTED: RESTRICTED DOCUMENTS, WHETHER CLASSIFIED, SECRET OR OTHERWISE, THAT WILL PREVENT DISSEMINATION OR REPRODUCTION OF DOCUMENTS.</small> </div>															
CLASSIFICATION OF CHARACTERISTICS (MIL-STD-216D) CRITICAL : XXXX MAJOR : XXXX MINOR : XXXX															
CLASSIFICATION NUMBER 1) TORV 99 - CRITICAL 2) TORV 101 - MAJOR															
METHOD OF INSPECTION 1) SPECIAL INSPECTION EQUIPMENT 2) COMMERCIAL INSPECTION EQUIPMENT 3) VISUAL															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="2"></th> <th>PARTS LIST</th> </tr> </thead> <tbody> <tr> <td colspan="2" rowspan="2"> THIRD ANGLE PROJECTION </td> <td colspan="2" rowspan="2"> <small>REPRODUCTION, REPRINTING, OR DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND ITS CONTRACTORS ONLY. CRITICAL TECHNOLOGY: 6 OCTOBER 1991. OTHER REFERENCES SHALL BE REFERENCED TO PRO-SET Naval Air Warfare Division.</small> </td> <td style="text-align: center;"> FROM: 1001 DATE: 14-08-93 PFT: 17. BALDRIS QI: 025 MATE: 025 BELLA: 025 WFO: 025 CAP, CHARGE HOLDER C 30003 3370AS1224 </td> </tr> <tr> <td style="text-align: center;"> 1001 14-08-93 17. BALDRIS 025 025 025 025 CAP, CHARGE HOLDER C 30003 3370AS1224 </td> </tr> </tbody> </table>									PARTS LIST	 THIRD ANGLE PROJECTION		<small>REPRODUCTION, REPRINTING, OR DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND ITS CONTRACTORS ONLY. CRITICAL TECHNOLOGY: 6 OCTOBER 1991. OTHER REFERENCES SHALL BE REFERENCED TO PRO-SET Naval Air Warfare Division.</small>		FROM: 1001 DATE: 14-08-93 PFT: 17. BALDRIS QI: 025 MATE: 025 BELLA: 025 WFO: 025 CAP, CHARGE HOLDER C 30003 3370AS1224	1001 14-08-93 17. BALDRIS 025 025 025 025 CAP, CHARGE HOLDER C 30003 3370AS1224
				PARTS LIST											
 THIRD ANGLE PROJECTION		<small>REPRODUCTION, REPRINTING, OR DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND ITS CONTRACTORS ONLY. CRITICAL TECHNOLOGY: 6 OCTOBER 1991. OTHER REFERENCES SHALL BE REFERENCED TO PRO-SET Naval Air Warfare Division.</small>		FROM: 1001 DATE: 14-08-93 PFT: 17. BALDRIS QI: 025 MATE: 025 BELLA: 025 WFO: 025 CAP, CHARGE HOLDER C 30003 3370AS1224											
				1001 14-08-93 17. BALDRIS 025 025 025 025 CAP, CHARGE HOLDER C 30003 3370AS1224											

10.2.7 Output iges2draw/IslandDraw

A	4	3	2	1
		C		

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: THERMOPLASTIC POLYESTER TYPE
TPES 110 PER ASTM D4507-85.
2. IDENTIFY PER MIL-STD-130.
DO NOT MARK ON PART.

PRELIMINARY

DISTRIBUTION STATEMENT: DISTRIBUTION IS AUTHORIZED TO THE DEPARTMENT OF DEFENSE AND DO Defense CONTRACTORS ONLY. CRITICAL TECHNOLOGY & OCCURER 1920. OTHER REQUESTS SHALL BE REFERRED TO PMA-242 NAVAL AIR WEAPONS COMMAND

DESTRUCTION NOTICE: FOR CLASSIFIED DOCUMENTS, FOLLOW THE PROCEDURES IN DOD 5200.22-M, INDUSTRIAL SECURITY MANUAL, SECTION II, OR DOD 5200.14-M, INFORMATION SECURITY PROGRAM REGULATION, CHAPTER IX, FOR UNKNOWN OR UNCLASSIFIED DOCUMENTS, DESTROY BY AN ECONOMIC PROCESS THAT PREVENTS DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT

REV STATUS						REV -	REVISIONS	
		SHE	SH	REV		REV	DATE	APPROVAL
							6-1-93	APPROVED

METHOD OF INSPECTION

S - SPECIAL INSPECTION EQUIPMENT
C - COMMERCIAL INSPECTION EQUIPMENT
V - VISUAL

ITEM NO.	QTY	CODE	PART NO./REFNO.	DESCRIPTION		SPECIFICATION	NOTE	TIME
				NAME	NUMBER			
				PARTS LIST				
				DEPARTMENT OF DEFENSE NAVAL AIR SYSTEMS COMMAND WASHINGTON D.C. 20370				
1	1	3320AS1224						

ITEM NO.	QTY	CODE	PART NO./REFNO.	DESCRIPTION	SPECIFICATION	NOTE	TIME
1	1	3320AS1224		CAP, CHARGE HOLDER			
				DRAWING	Q/A		
				APPROVAL NUMBER	Matl.		
				DATE	REL BL		
				MFG.	XX		
				DATE	(See G-1)		
				RELEASER	RELEASER		

ITEM NO.	QTY	CODE	PART NO./REFNO.	DESCRIPTION	SPECIFICATION	NOTE	TIME
1	1	3320AS1224		CAP, CHARGE HOLDER			
				DRAWING	Q/A		
				APPROVAL NUMBER	Matl.		
				DATE	REL BL		
				MFG.	XX		
				DATE	(See G-1)		
				RELEASER	RELEASER		

COMPUTER GENERATED

45

10.2.8 Output Preview

	4	3	2	1																																				
D	<p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <ol style="list-style-type: none"> MATERIAL: THERMOPLASTIC POLYESTER TYPE TPE'S 110 PER ASTM D4507-85. IDENTIFY PER MIL-STD-130. DO NOT MARK ON PART. 																																							
C																																								
B	<p>CLASSIFICATION OF CHARACTERISTICS (MIL-STD-2101)</p> <p>CRITICAL - XXX MAJOR - XXX MINOR - XXX</p> <p>CLASSIFICATION NUMBER 1 THRU 99 - CRITICAL 101 THRU 199 - MAJOR</p>																																							
A	<p>METHOD OF INSPECTION</p> <p>S = SPECIAL INSPECTION EQUIPMENT C = COMMERCIAL INSPECTION EQUIPMENT V = VISUAL</p> <table border="1"> <tr> <td colspan="3">DRAWING NO. 90818-32-C-B1A8</td> <td colspan="3">RELEASE DATE: 04-1994</td> </tr> <tr> <td colspan="3">ORIGIN ACTIVITY: CAGE CODE: 70120</td> <td colspan="3">DRAFTING DATE: 04-1994</td> </tr> <tr> <td colspan="3">REINFORCED PLATE: 70000030</td> <td colspan="3">APPROVED FOR PRODUCTION: 04-1994</td> </tr> <tr> <td colspan="3">DRAWING NO. 90818-32-C-B1B0</td> <td colspan="3">APPROVED FOR PRODUCTION: 04-1994</td> </tr> <tr> <td colspan="3">THIRD ANGLE PROJECTION</td> <td colspan="3">APPROVED FOR PRODUCTION: 04-1994</td> </tr> <tr> <td colspan="3">REV. 04-94</td> <td colspan="3">APPROVED FOR PRODUCTION: 04-1994</td> </tr> </table>				DRAWING NO. 90818-32-C-B1A8			RELEASE DATE: 04-1994			ORIGIN ACTIVITY: CAGE CODE: 70120			DRAFTING DATE: 04-1994			REINFORCED PLATE: 70000030			APPROVED FOR PRODUCTION: 04-1994			DRAWING NO. 90818-32-C-B1B0			APPROVED FOR PRODUCTION: 04-1994			THIRD ANGLE PROJECTION			APPROVED FOR PRODUCTION: 04-1994			REV. 04-94			APPROVED FOR PRODUCTION: 04-1994		
DRAWING NO. 90818-32-C-B1A8			RELEASE DATE: 04-1994																																					
ORIGIN ACTIVITY: CAGE CODE: 70120			DRAFTING DATE: 04-1994																																					
REINFORCED PLATE: 70000030			APPROVED FOR PRODUCTION: 04-1994																																					
DRAWING NO. 90818-32-C-B1B0			APPROVED FOR PRODUCTION: 04-1994																																					
THIRD ANGLE PROJECTION			APPROVED FOR PRODUCTION: 04-1994																																					
REV. 04-94			APPROVED FOR PRODUCTION: 04-1994																																					
D	<table border="1"> <thead> <tr> <th>REV</th> <th>STATUS</th> <th>REV</th> <th>REVISIONS</th> </tr> <tr> <th>REV</th> <th>OF SHEETS</th> <th>REV</th> <th>REVISION</th> </tr> <tr> <th>SII</th> <th>SI</th> <th>SI</th> <th>SI</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td colspan="2">REVISED</td> <td colspan="2">REVISED</td> </tr> <tr> <td colspan="2">X DESIGN UPDATE</td> <td colspan="2">6-1-93 APPROVED</td> </tr> </tbody> </table> <p>PRELIMINARY</p> <p>3320AS1224</p>				REV	STATUS	REV	REVISIONS	REV	OF SHEETS	REV	REVISION	SII	SI	SI	SI	1	1	1	1	REVISED		REVISED		X DESIGN UPDATE		6-1-93 APPROVED													
REV	STATUS	REV	REVISIONS																																					
REV	OF SHEETS	REV	REVISION																																					
SII	SI	SI	SI																																					
1	1	1	1																																					
REVISED		REVISED																																						
X DESIGN UPDATE		6-1-93 APPROVED																																						